



Uni-Q® Loudspeakers - The Range



KEF - THE FACTS AND THE FEELING



'Fresh ideas are what we breathe - but only obsession with detail can make them work'

Raymond Cooke MBE 1925 - 1996
Founder of KEF

People who know sound, know KEF.

It's a name that commands such respect because we've never been a 'me too' manufacturer. Ever since the early days of hi-fi, our approach has been driven by a passionate belief in the power of new materials, new technologies and design ingenuity to heighten the enjoyment of recorded sound.

This is as true today as it was back in '61, when KEF was founded by Raymond Cooke, which is why KEF speakers have ranked among the finest in the world in every decade since.

In that time, KEF has pioneered many landmark innovations. New diaphragm materials. Neoprene damping. The use of computer modelling in research and quality control. Digital testing to unprecedented tolerances. Total system design methods. Conjugate load network techniques. And arguably the greatest breakthrough of all: the Uni-Q array,

based on technology originally developed for the NASA space programme and protected by world wide patents. No other manufacturer has done more to advance the principles of loudspeaker engineering, and none is better placed to exploit the potential of the latest digital formats.



KEF Production Facility at Maidstone

POD TECHNOLOGY

Separating out the midrange and high frequency drivers into their own pods has long been a KEF tradition dating all the way back to 1977 with the worlds first speaker

to do this, the Model 105. This technology lives on today in the Model 207 flagship.



Model 105 1977-79



Model 105/4 1980-82



Model 105/2 1982-87



Model 107 1986-89



Model 107/2 1990-96



Model 207 2001

KEF LOUDSPEAKERS

What to look for when choosing your speakers

Of all the elements in your audio system, changing your speakers can make the biggest difference in sound quality. As a rule of thumb, the speakers in a basic two-channel hi-fi system often account for about a third of the total system cost.

Speaker quality has a lot to do with size and the number of drive units; but ultimately what matters is how well they reproduce

your kind of music or film soundtrack in your room at the volume you most enjoy. Although technical specifications are helpful, you can only find which model best suits your personal preferences by hearing them in action. These are some of the things you should be looking for...

Measuring performance

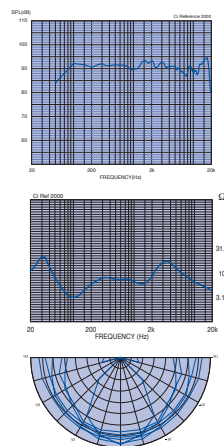
The smoother a speaker's frequency response, the more faithful its reproduction of the audio signal. Transient response is also important, reflecting the speaker's ability to respond quickly to any sudden change in the signal without blurring (smearing) the sound. How loudly a speaker plays depends on its sensitivity, maximum output capability and power handling. Low sensitivity speakers require larger amounts of amplifier power to reach a given loudness level.

High sensitivity speakers require relatively less and can be used to compensate for low amplifier power. When compensating for low sensitivity speakers remember that a 10dB increase in sound pressure level, which sounds twice as loud, requires 10 times more power.

Always look for a wide dynamic range in a speaker - the range of sound intensity that can be reproduced without distortion. It's expressed as a ratio in decibels. In speech, this is rarely more than 40dB; in orchestral works, it can be as much as 75dB. Judge whether loud passages sound appropriately louder than quiet ones. Can you hear subtle changes when something else is playing loud? Does music come to life at high volume, or blur?

Ask yourself also whether the sound picture is complete at the frequency extremes. Or has bass, for example, been sacrificed to midrange clarity? Accuracy is a matter of how closely the speaker reproduces live sounds. How much detail can you hear? Do individual images sound separate from each other, or are they like highlights in an acoustic soup?

Neutral balance gives the human voice a natural timbre, without distortion at frequency extremes. Listen for colouration - do voices sound strange? Is there too much sibilance? Can you differentiate the sound of similar but different instruments? Or does a violin sound like a viola, a Stratocaster like a Les Paul?



Drive units

Hi-fi drivers are dedicated to different parts of the frequency spectrum. Bass units reproduce sound between 20 to 500Hz, midrange drivers (carrying most of the identifying tones of music or speech)

usually from 200Hz to 4kHz, and HF drivers (tweeters),

from 2kHz to above 20kHz. Long-throw drivers allow

a large amount of cone movement, and therefore generate higher sound pressure levels. A strong

chassis such as cast aluminium provides a rigid platform for the moving coil/cone assembly and avoids

the energy being drained from the cone into the cabinet

itself. Some form of mechanical decoupling between the chassis

and the cabinet can greatly reduce the transmission of this vibrational energy to the cabinet walls.

Cone materials vary. Tweeters are usually made from metallic or fabric materials - the former tend to be very revealing and detailed; the latter, a more reserved sound.



Components

Crossovers act as the brains of a speaker, allocating the various frequency ranges to the appropriate drivers, with filters to stabilise impedance loads and shape frequency response.

The quality of the components (such as polypropylene capacitors and air-cored inductors) directly affects acoustic fidelity.

Setting up

High performance speakers usually have dual sets of connectors (binding posts) and crossovers with separate sections for low and high frequencies. This is to accommodate bi-wiring (using two sets of cables to improve resolution) and bi-amping (in which each set of connectors is wired to a separate amplifier for optimum response across the frequency range). KEF's new Reference Series even features 3 pairs of connectors for tri-wiring or tri-amping. Most speakers sound better after a few hours use. All you have to do then is sit back and enjoy.



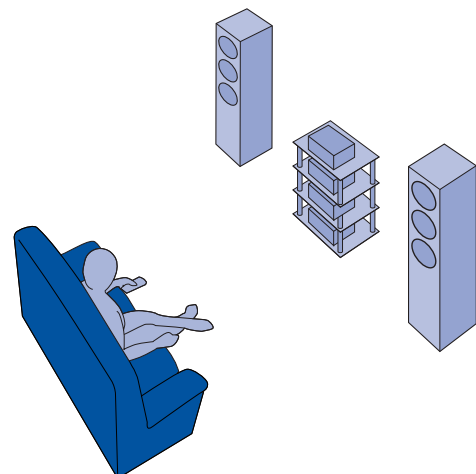
Imaging

Stereo imaging is the illusion of a realistic 3D presence that seems not to come from the speakers themselves, but a virtual sound stage in which different instruments or sound effects are localised. With conventional speakers (as opposed to KEF Uni-Q), this illusion only occurs in a relatively small area - the 'sweet spot'.

To test speaker dispersion characteristics, move around the listening area.

Does the sound fade as you move away from the main axis of the speaker?

Do central images stay centrally located at some frequencies but not others?



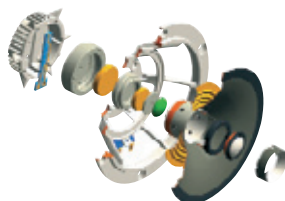


The continuing evolution of KEF's legendary Reference Series has always been based on the concept of benchmark precision. Every time a new generation of models is developed to incorporate more sophisticated technologies, we build prototypes that are as close to perfection as possible. These then become the 'Reference' to which every single production version must conform, each set assembled by a skilled craftsman who matches their performance to a tolerance of just 0.5dB.

As the latest incarnation of this approach, the Reference Series is a quantum leap forward in audiophile quality sound. In fact, its performance envelope extends well beyond the range of human hearing. This is not as futile as it may at first sound - whereas conventional CDs carry no audio information beyond 20kHz, extended bandwidth formats such as SACD and DVD Audio contain signals up to 40kHz and more. Consider the analogy that even though no-one drives at 200 mph, cars that are engineered to do so are inherently better performers at lower speeds.

That's why all new Reference series models come with a state of the art 19mm (3/4") titanium dome Hypertweeter™ for massively extended HF performance. Mounted in low diffraction, chrome-plated steel enclosures time aligned with the main array, they deliver flat response to 55kHz and useful energy up to 80kHz. What you hear is a sweeter, more natural sound.

Radical new Uni-Q driver arrays - the ultimate refinement of KEF's trademark technology - where the tweeter is mounted at the acoustic centre of the midrange cone - provide an immaculate single point source, the Holy Grail of loudspeaker design. With the midrange cone and surround integrated into a single Uni-Form moulding, there are no discontinuities to distort the HF energy from the 25mm (1") elliptical profile titanium dome tweeter.



With only midrange frequencies to handle, movement of the Uni-Q cone is so modest that virtually no distortion is caused by intermodulation with the tweeter. Like the bass drivers, an open chassis design - minimises acoustic reflection behind the cone.

The result is an even more spacious, better defined sound stage over a very large area, with exceptional off-axis response and none of the 'sweet spot' limitations of conventional speakers.

Bass extension is equally stunning, thanks to ultra-low distortion motor systems and high tech reinforced diaphragms. And with each bass driver radiating directly from its own separate internal enclosure to avoid the distorting effects of vertical standing waves that tall cabinets usually suffer from, you experience noticeably clearer, more open bass.

As you would expect from a handmade KEF product, build quality is as outstanding as the specification of each individual component. Carefully graded and soldered by hand, KEF's own oxygen-free copper cable ensures the best possible signal transmission, with terminals machined from solid brass and plated in gold. High order crossovers with advanced air-cored inductors and polypropylene capacitors ensure faultlessly smooth integration.

For optimum performance in real rooms, all models accommodate tri-wiring and are fitted with a boundary control device to adjust bass response according to speaker positioning and the acoustics of the listening area. Magnetic shielding ensures trouble-free positioning in home theatre applications.

Engineered from laminated birch ply using KEF's own internal bracing system, the new curved section cabinets are elegantly profiled to minimise colouration and finished in a choice of hand-matched hardwood veneers.

More than ever before, these are very special speakers indeed.



Model 207

A true five-way design, the 207 is instantly recognisable by the cast aluminium pod, which is shaped to damp the internal sound field of KEF's new generation Uni-Q upper midrange driver.

Beneath the state-of-the-art elliptical profile titanium Hypertweeter, a bonded Uni-Form cone/surround provides the optimum waveguide for the 25mm (1") titanium dome HF unit leading to exceptional vocal clarity.

The lower midrange driver is derived from the LF unit, KEF's lightweight neodymium magnet



assembly allowing it to be effectively decoupled from the cabinet to improve imaging and integration while minimising colouration.

Both long-throw 250mm (10") bass drivers have their own dedicated enclosures, tuned to different frequencies for better performance in real rooms. With a combined cone area equivalent to a single 375mm (15") cone, they deliver staggering bass extension of exceptional purity.

Incredibly lucid over an expansive sound stage, with no discernible distortion - whatever sounds you're into, this is a supremely musical performer.

Model 205

In all the other Reference Series models, the wide dispersion Uni-Q/Hypertweeter pod is faired into the cabinet itself.

As in the 207, advanced computer modelling techniques were used to optimise the elliptical profile of the titanium dome tweeter, whose output is fine tuned to the Uni-Form wave-guide. It makes the human voice sound so real and so close that you start looking around for the source.

For the smoothest possible response, much attention has been paid to evening out flux profiles. Both MF and HF coils in the Uni-Q driver share a compound twin neodymium

magnet assembly, and the two ultra-low distortion 200mm (8") bass drivers have balanced Faraday loops above and below the coil to ensure perfect symmetry. Both long-throw bass drivers operate in parallel at low frequencies where throw is critical, but the lower unit is rolled off early to allow the top LF driver to dominate at the crossover to the midrange unit for the smoothest possible integration.

The listening experience is spine-tingling, off-axis as well as on. Wherever you sit in the room, there's a near perfect illusion of presence - exactly what you want for auditorium quality home theatre or to recapture that elusive live concert 'feel'.



Model 203

The 203 shares all this technical virtuosity, only on a slightly smaller scale.

Computer matched high order four-way crossovers assure fluid transitions between the five drivers.

The Hypertweeter and the new Uni-Q coincident source array together provide seamless mids and highs while the two high-tech 165mm (6½") LF drivers with KEF's high-tech motor systems and stiff, lightweight reinforced diaphragms, deliver deliciously open bass with incredibly low distortion even at high volume.

The curved section cabinets are massively braced to eliminate box colourations, and the open chassis design of the drive units with vented cones eliminates any trapped air noise.

Magnetically shielded like the rest of the range, the 203 combines heavyweight muscle with intricate delicacy right across the frequency range. Stereo imaging is superb, the detailing immaculate and the response so fluid you could almost drink it.





Model 201

All the latest Reference Series technology packed into a neat bookshelf package. The same sophisticated elliptical titanium dome Hypertweeter. The same carefully damped cast aluminium enclosure for the 5th generation Uni-Q driver, with its thermoplastic rubber surround moulded on to the cone to avoid the slightest acoustic discontinuity. The same ultra-low distortion LF motor systems for bass power with un-compromised accuracy. There's certainly no compromise on build quality either. Graded and hand soldered OFC wiring. Audiophile crossovers with air-cored inductors and polypropylene capacitors. Gold plated terminals. Like all Reference Series models, the 201 can be tri-wired and comes

with a boundary control device to fine tune response to the acoustics of the room. And with full magnetic shielding and the inherently wide dispersion characteristics of KEF Uni-Q, you can place them more or less wherever you like. Smooth. Sweet sounding. Startlingly clear. The 201 is big in everything but size.



Model 206DS

Designed to partner the new Reference Series, the Model 206DS is a dedicated dipole rear surround for no nonsense KEF Reference multi-channel systems. Incorporating two of the radical new Uni-Q point source arrays as used in the Reference Series, partnered with two 19mm ($\frac{3}{4}$ ") titanium dome Hypertweeters and twin 165mm ($6\frac{1}{2}$ ") low distortion bass drivers, the Model 206DS is perfectly timbre matched to the other Reference Series speakers.

The four-way Model 206DS contains the technologies developed for the Reference Series; a Boundary Compensation Device, Reference matched drive units. The technologies combine to produce an incredibly lucid sound reproduction, to ensure your enjoyment is complete.



Model 204c

With around two-thirds of the average movie soundtrack playing through the centre channel, KEF's extended bandwidth technology has been applied with particular care to the new Reference series centre speakers.

Adding the Hypertweeter to the new Uni-Q driver array provides the extra bandwidth required to reproduce all the audio information encoded in the latest digital formats. For reproducing the human voice, the combination is unsurpassed - completely natural sounding, and sensitive enough for the slightest whisper to be heard with unerring clarity.

The array is completed by audiophile quality 165mm ($6\frac{1}{2}$ ") bass drivers on either side, with ultra-low distortion motor systems and reinforced lightweight diaphragms to recreate the full weight of frontal effects without sacrificing subtlety at lower volumes.

The perfect compliment to models 207 and 205 floor-standers, model 204c is one of the most impressive centre speakers to be found at any price - or as one critic put it, 'gobsmacking'.



Model 202c

The recommended centre speaker to partner models 203 and 201, the 202c delivers all the listening benefits of the latest Reference series technology. With the same Hypertweeter and an identical Uni-Q array incorporating KEF's latest elliptical dome titanium tweeter and seamless Uni-Form cone/surround, the all-important vocals are reproduced with the same stunning realism.

As with the 204c, Uni-Q's single point source effect really comes into its own in the 202c. Pinpointing screen dialogue with great accuracy within the sound stage - and when flanked by a pair of KEF's 165mm ($6\frac{1}{2}$ ") ultra low distortion bass drivers, the combined effect is to immerse the viewer in a detailed soundscape that's as lucid as it is involving. Irresistible.



The look of XQ - an evolution of the new Reference Series aesthetic - is about function, not fashion. From the chromed steel Hypertweeter pod to the curves of the cabinet, everything is calculated to produce a cleaner, purer sound.

Admittedly, the finish is a bit of an extravagance. You can specify your XQ system in either a cool, Natural Maple veneer or one of three high gloss lacquer finishes: Silver and Graphite Metallic (to complement AV equipment), or Maranello Red. The aluminium front baffles are anodised in Silver.

But hey - when the technology inside creates such beautiful sound, they deserve to look special.

With all models magnetically shielded and identically voiced, the XQ Series fills the room with the kind of breathtaking auditorium quality 3D soundscape you normally only find with the world's most expensive speakers.

XQ five

Tall, slim and assertive, XQ five is a genuine four-way floorstander with two 165mm (6½") bass drivers in addition to the 165mm (6½") midrange/HF Uni-Q array and KEF's new titanium dome Hypertweeter. What you experience is a big, all-enveloping sound image,



perfectly controlled. Exquisite detail, wherever you sit. Exceptional lucidity, whatever the volume - uncannily so, with the latest digital formats. If you want sound that takes you out of yourself, take five.

XQ one

Irresistible - the compact three-way stand mount speaker that's packed with Reference Series technology. Don't be fooled by the relatively small size. Power handling is exceptional, and Uni-Q's inherent wide dispersion characteristics fill any normal room with an expansive soundscape. Magnetically shielded like the rest of the range, it's equally at home shelf-mounted or on the available dedicated stand.

If you're after true audiophile quality wideband response without breaking the bank, this is the one.



XQ two c

Serious technology - and rightly so. Watching movies, nowhere is acoustic accuracy more important than in the centre channel.

The overall effect is so real it's unreal - all the more so with digital media. The rustle of a breeze. Fingertips on frets. Distant thunder. Shoes creaking. Cicadas in the grass. The flautist's intake of breath. You're there, simple as that.

You don't even need to look - you need two c.





The latest evolution of the acclaimed Q Series demonstrates how the listening benefits of KEF technology leadership cascade down from the Reference Series to more affordable ranges.

As the name implies, New Q has all the inherent advantages of KEF Uni-Q: seamlessly fluid midrange, consistent stereo imaging and the unrivalled off-axis response that makes Uni-Q speakers as easy to place as they are to drive.

It's no accident that the styling, with the distinctive faired-in

Uni-Q 'pod' and curved section cabinets, echoes the latest Reference series. Every model features a new design of Uni-Q driver array whose 19mm ($\frac{3}{4}$ ") metal dome tweeter is a direct development from the Reference HF unit, and the same ultra low distortion motor system.

Assertive, musically voiced and richly satisfying, the new Q series speakers are available in a choice of Maple, Dark Apple, Black Ash or Silver finishes.



Q7

The three-way bass reflex Q7 is an unusually expansive performer - and no wonder. The 165mm (6 $\frac{1}{2}$ ") Uni-Q midrange/HF driver array incorporates KEF's sophisticated new 19mm ($\frac{3}{4}$ ") metal dome tweeter, so midrange is silken and vocals outstandingly pure. KEF's unique B169 'racetrack' format LF driver delivers terrific bass for such a slim cabinet. Computer-designed crossovers optimise sound quality, and KEF's internal bracing eliminates the box resonances that often

affect tall full size speakers. The result is clean, sweet and devastatingly accurate sound quality.

Q5

A full bandwidth floorstander with Uni-Q's characteristically wide dispersion area, Q5 plays loud and true. The response of the midrange/HF array is fluid and accurate, and the 165mm (6 $\frac{1}{2}$ ") bass driver has its own tuned enclosure and reflex port for more dynamic power handling. Wherever you sit, the configuration adds depth and texture to the stereo image. Whether you opt for the Maple, Dark Apple or Black Ash finish, Q5 looks discreet and authoritative - and that's how it sounds.





Q1

All the benefits of the latest Q Series in a compact speaker with the power to fill the room with big sounds. It has the same Uni-Q driver array as the floorstanding models, reproducing the frequency spectrum with

virtually no crossover effects. Genuine performance - and great value.

Q2ds

The new Q2ds dipole surrounds create the perfect 'diffuse' surround effect, as experienced in movie theatres, by utilising two 165mm (6 1/2") Uni-Q arrays.

The addition of a downward firing reflex loaded 130mm (5 1/4") bass driver adds weight to the surround effects. Enveloping you in a rich and spacious soundfield. Providing you with the perfect home theatre experience.



Q9c

The Q9c centre speaker has the same Uni-Q array for a perfect timbre-match with the rest of the Q Series. Magnetically shielded and bi-wirable, it has the power to enrich your viewing experience compared to any conventionally engineered equivalent.



Q8s

Slim and compact, Q8s is the two-way closed box rear effects speaker for the Q Series range. Using an identical Uni-Q array to the rest of the range, it reproduces diffuse ambient effects with great accuracy. Full magnetic shielding prevents any interference with nearby electronics, and they can be either wall or shelf-mounted.



Q4

A 130mm die-cast chassis houses the long throw cone and coincident mounted 19mm aluminium dome HF unit for true point source reproduction. Combine the excellent offaxis dispersion characteristics of Uni-Q with the magnetic shielding of the drive



units and you get a speaker which is much easier to place in the room and one which alleviates the traditional sweet spot found with 'ordinary' speakers. The new Q4 is a true three way speaker with extended bass output which belies the size of its diminutive cabinet.



Q6c

By utilizing an identical Uni-Q array in the Q6c centre channel, an even tonal balance is obtained throughout the soundstage when combined with

other models in the range. Configured for bi-wiring, as are all the new Q Series products, or even bi-amplification, the Q6c has the power and presence to bring your home theatre to life.



Q compact

The new Q compact brings unrivalled performance to a small bookshelf loudspeaker by making the outstanding attributes of Uni-Q available at an affordable price. Compact in all but performance.

POWERED SUBWOOFERS



The Powered Subwoofer (PSW) plays a vital part in exploiting the full potential of DVD and other digital formats. The KEF range offers logical steps in amplifier power, and bass performance with

styling to match. In each case, both frequency cut-off and output levels are easily adjusted to match the main speakers and room acoustics.



PSW5000

The ultimate powered subwoofer - as it would have to be in order to match the awesome performance standards set by the new Reference Series for which it was designed. How does a 1kW Class D amplifier with a 380mm (15") long-throw woofer sound? Simply devastating is the answer. The subwoofer can be adjusted via radio remote control from anywhere in the home, so the unit can be concealed wherever you please. From the furniture quality real wood enclosure in Black Ash,

Maple or Cherry to the tips of its gold-plated terminal block, PSW5000 exudes performance without compromise.

PSW4000

Serious stuff. No less than 500W of high efficiency Class D amplifier power, with a 300mm (12") long-throw driver in a hand finished MDF cabinet. As you would expect, bass extension is more than generous - but what's really impressive is the way low frequency response is immaculately controlled. Output level, phase (infinitely variable) and the low pass filter frequency can be adjusted via radio remote control from anywhere in the home, so the unit can be concealed wherever you please.



PSW3500

With a 300W power amp driving a 300mm (12") down-firing long-throw bass unit, PSW3500 is capable of generating a heftily extended bass image over a very large area - and with level, phase, and frequency fully adjustable via infrared remote control, it's easy to fine tune to your personal preferences and room acoustics. The components and circuitry in the distinctive elliptical cabinet are all of audiophile standard, and a separate infrared sensor allows the unit to be placed completely out of sight. Available in Black Ash, Maple, Dark Apple or Silver.



PSW2500

The multi-purpose PSW2500 active subwoofer has an attractive curved cabinet which is heavily braced to eliminate any unwanted 'box colouration'. Using a 250mm (10") long-throw bass driver and a 250W built in amplifier, this closed box design will deliver ground-shaking effects and depth, whether it is a movie or music. The PSW2500 also incorporates many new features such as ground lift ability and switchable movie/music modes allowing it to complement any music or multi-channel system.



PSW1000.2

A 100W on-board amplifier driving a 200mm (8") bass driver adds a powerful extra dimension to the 3D sound image. A reflex design with carefully contoured ends to the 'racetrack' port to eliminate noise and sturdy internal bracing to minimise box colouration, the cabinet's distinctive soft edged styling is set off by a choice of Black Ash, Maple or Dark Apple finishes. The ideal entry level sub.



SPECIFICATIONS

Reference Series

Model	207	205	203	201	206DS	204c	202c
Design	five-way reflex	four-way reflex	four-way reflex	four-way reflex	four-way reflex	four-way reflex	four-way reflex
Drive units	LF: 2 x 250mm (10") LMF: 1 x 250mm (10") MF: 1 x 165mm (6½") HF: 1 x 25mm (1") SHF: 1 x 19mm (¾")	LF: 2 x 200mm (8") MF: 1 x 165mm (6½") HF: 1 x 25mm (1") SHF: 1 x 19mm (¾")	LF: 2 x 165mm (6½") MF: 1 x 165mm (6½") HF: 1 x 25mm (1") SHF: 1 x 19mm (¾")	LF: 1 x 165mm (6½") MF: 1 x 165mm (6½") HF: 1 x 25mm (1") SHF: 1 x 19mm (¾")	LF: 2 x 165mm (6½") MF: 2 x 165mm (6½") HF: 2 x 25mm (1") SHF: 2 x 19mm (¾")	LF: 4 x 165mm (6½") MF: 1 x 165mm (6½") HF: 1 x 25mm (1") SHF: 1 x 19mm (¾")	LF: 2 x 165mm (6½") MF: 1 x 165mm (6½") HF: 1 x 25mm (1") SHF: 1 x 19mm (¾")
Frequency response at ±3dB	40Hz - 55kHz	45Hz - 55kHz	55Hz - 55kHz	58Hz - 55kHz	55Hz - 55kHz	53Hz - 55kHz	65Hz - 55kHz
Crossover frequency	120Hz, 400Hz, 2.7kHz, 15kHz	400Hz, 2.7kHz, 15kHz	400Hz, 2.7kHz, 15kHz	400Hz, 2.7kHz, 15kHz	250Hz, 2.7kHz, 15kHz	400Hz, 2.7kHz, 15kHz	400Hz, 2.7kHz, 15kHz
Amplifier requirements	50 - 400W	50 - 300W	50 - 200W	50 - 150W	50 - 200W	50 - 300W	50 - 200W
Sensitivity (2.83V/1m)	91dB	90dB	89dB	88dB	88dB	90dB	89dB
Maximum output	117dB	115dB	113dB	110dB	113dB	115dB	113dB
Impedance	8Ω (3.2Ω min)	8Ω (3.2Ω min)	8Ω (3.2Ω min)	8Ω (3.2Ω min)	8Ω (3.2Ω min)	8Ω (3.2Ω min)	8Ω (3.2Ω min)
Magnetic shielding	Yes	Yes	Yes	Yes	No	Yes	Yes
Weight	66Kg (145lbs)	33Kg (72.6lbs)	26.5Kg (58.3lbs)	14.8Kg (32.6lbs)	16kg (35.2lbs)	35Kg (77lbs)	16Kg (35.2lbs)
Dimensions	1266 x 400 x 685 mm	1155 x 285 x 433 mm	1068 x 248 x 405 mm	557 x 248 x 402 mm	750 x 354 x 190 mm	240 x 1100 x 425 mm	240 x 630 x 315 mm
(H x W x D)	49.8 x 15.7 x 27 in.	45.5 x 11.2 x 17 in.	42 x 9.8 x 15.9 in.	21.9 x 9.8 x 15.5 in.	29.5 x 14 x 7.5 in.	9.4 x 43.3 x 16.7 in.	9.4 x 24.8 x 12.4 in.
Finishes	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer

XQ Series

Model	XQ five	XQ one	XQ two c
Design	four-way bass reflex	three-way bass reflex	four-way closed box
Drive units	LF: 2 x 165mm (6½") MF: 1 x 165mm (6½") HF: 1 x 19mm (¾") SHF: 1 x 19mm (¾")	LF: 1 x 165mm (6½") HF: 1 x 19mm (¾") SHF: 1 x 19mm (¾")	LF: 2 x 165mm (6½") MF: 1 x 165mm (6½") HF: 1 x 19mm (¾") SHF: 1 x 19mm (¾")
Frequency response at ±3dB	45Hz - 55kHz	60Hz - 55kHz	60Hz - 55kHz
Crossover frequency	300Hz, 3kHz, 15kHz	3kHz, 15kHz	350Hz, 2.7kHz, 15kHz
Amplifier requirements	15 - 150W	15 - 120W	15 - 150W
Sensitivity (2.83V/1m)	90dB	89dB	89dB
Maximum output	112dB	109dB	110dB
Impedance	8Ω (3.2Ω min)	8Ω (3.2Ω min)	8Ω (3.2Ω min)
Magnetic shielding	Yes	Yes	Yes
Weight	24.3kg (53.5lbs)	9.2kg (20.2lbs)	17.5kg (38.5lbs)
Dimensions*	1011 [1055] x 231 x 302 [311] mm	374 [418] x 231 x 302 [308] mm	231 [275] x 630 x 302 [311] mm
(H x W x D)	39.8 [41.5] x 9 x 11.9 [12.2] in.	14.7 [16.4] x 9 x 11.9 [12.1] in.	9 [10.8] x 24.8 x 11.9 [12.2] in.
Finishes	Graphite, Silver or Maranello Red	Graphite, Silver or Maranello Red	Graphite, Silver or Maranello Red
*[including grilles and Hypertweeter]			

Q Series

Model	Q7	Q5	Q1	Q2ds
Design	three-way bass reflex	two and a half-way bass reflex	two-way bass reflex	three-way dipole surround
Drive units	LF: 228 x 152mm (9" x 6") MF: 165mm (6½") HF: 1 x 19mm (¾")	LF: 165mm (6½") MF: 165mm (6½") HF: 1 x 19mm (¾")	LF: 165mm (6½") HF: 1 x 19mm (¾")	LF: 1 x 130mm (5¼") HF: 2 x 165mm (6½")
Frequency response ±3dB	35Hz - 27kHz	39Hz - 27kHz	45Hz - 27kHz	80 - 27kHz
Crossover frequency	120 - 2.8Hz	2.8kHz	2.8kHz	220Hz - 3kHz
Amplifier requirements	15 - 175W	15 - 150W	15 - 120W	15 - 120W
Sensitivity (2.83V/1m)	91dB	91dB	91dB	91dB
Maximum output	113dB	112dB	111dB	111dB
Impedance	8Ω	8Ω	8Ω	8Ω
Magnetic shielding	Yes	Yes	Yes	No
Weight	17kg (37.4lbs)	14.5kg (32lbs)	6.25kg (13.8lbs)	7.7kg (16.9lbs)
Dimensions	950 x 260 x 350 mm	880 x 240 x 320 mm	350 x 220 x 320 mm	220 x 442 x 210 mm
(H x W x D)	37.4 x 10.2 x 13.7 in.	34.6 x 9.4 x 12.6 in.	13.7 x 8.6 x 12.6 in.	8.7 x 17.4 x 8.3 in.
Finishes	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple or Dark Apple

Model	Q8s	Q9c	Q4	Q6c	Q compact
Design	two-way closed box	two-way bass reflex	three-way bass reflex	two-way bass reflex	two-way bass reflex
Drive units	LF: 165mm (6½") HF: 1 x 19mm (¾")	LF: 165mm (6½") HF: 1 x 19mm (¾")	LF: 130mm (5¼") MF: 130mm (5¼") HF: 1 x 19mm (¾")	LF: 130mm (5¼") HF: 1 x 19mm (¾")	LF: 130mm (5¼") HF: 1 x 19mm (¾")
Frequency response ±3dB	120Hz - 27kHz	50Hz - 27kHz	42Hz - 27kHz	50Hz - 27kHz	50Hz - 27kHz
Crossover frequency	2.8kHz	2.8kHz	250Hz - 2.8kHz	2.8kHz	2.8kHz
Amplifier requirements	15 - 120W	15 - 120W	15 - 150W	10 - 100W	10 - 100W
Sensitivity (2.83V/1m)	90dB	91dB	90dB	89dB	89dB
Maximum output	108dB	111dB	111dB	109dB	109dB
Impedance	8Ω	8Ω	8Ω	8Ω	8Ω
Magnetic shielding	Yes	Yes	Yes	Yes	Yes
Weight	3.1kg (6.82lbs)	6.2kg (13.6lbs)	9.9kg (20.0lbs)	4.1kg (9lbs)	3.9kg (8.6lbs)
Dimensions	253 x 170 x 119 mm	200 x 480 x 270 mm	855 x 180 x 250 mm	165 x 434 x 215 mm	280 x 180 x 250 mm
(H x W x D)	10 x 6.7 x 4.7 in.	7.9 x 18.9 x 10.6 in.	33.7 x 7.1 x 10.8 in.	6.5 x 17.1 x 8.5 in.	11 x 7.1 x 9.9 in.
Finishes	Video Grey	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple, Dark Apple or Silver

Powered Subwoofers

Model	PSW5000	PSW4000	PSW3500	PSW2500	PSW1000.2
Design	bass reflex, downward firing	bass reflex, downward firing	closed box, downward firing	closed box	bass reflex, downward firing
Drive units	LF: 380mm (15")	LF: 300mm (12")	300mm (12")	250mm (10")	200mm (8")
Frequency response ±3dB	18Hz - 250Hz	25Hz - 250Hz	30Hz - 250Hz	30Hz - 150Hz	38Hz - 180Hz
Crossover frequency	variable	variable	variable / LFE	variable	variable
Amplifiers	1000W built in	500W built in	300W built in	250W built in	100W built in
Maximum output	118dB	110dB	110dB	108dB	106dB
Magnetic shielding	Yes	Yes	Yes	Yes	Yes
Weight	60kg (132lbs)	38kg (83.6lbs)	22.5kg (49.6lbs)	14.5kg (31.9lbs)	13.5kg (29.7lbs)
Dimensions	545 x 590 x 590 mm	465 x 495 x 495 mm	450 x 600 x 395 mm	360 x 495 x 325 mm	360 x 320 x 320 mm
(H x W x D)	21.5 x 23.2 x 23.2 in.	18.4 x 19.5 x 19.5 in.	17.7 x 23.6 x 15.6 in.	14.2 x 19.5 x 12.8 in.	14.2 x 12.6 x 12.6 in.
Finishes	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple or Cherry real wood veneer	Black Ash, Maple, Dark Apple or Silver	Black Ash, Maple or Dark Apple	Black Ash, Maple or Dark Apple

Stands

Model	Reference 201 stand	Reference 204c stand	Reference 202c stand	XQ one stand
Dimensions (W x D)	280 x 375 mm (11 x 14.7 in.)	1100 x 380 mm (43.3 x 14.9 in.)	630 x 270 mm (24.8 x 10.6 in.)	280 x 365 mm (11 x 14.4 in.)
Height	480 mm (18.9 in.)	465 mm (18.3 in.)	460 mm (18.1 in.)	622 mm (24.5 in.)



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